

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : NEC CORP

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(54) RECEPTION ANTENNA SYSTEM FOR PLURAL ZONES

(57)Abstract:

PURPOSE: To decrease the number of reception antennas of a base station by devising the system such that each of N sets of reception antennas of the base station receives the radio wave of its own communication zone and a radio wave of adjacent communication zones and one of the radio wave is distributed to the receiver of an adjacent communication zone.

CONSTITUTION: A wave received by an antenna 1 is amplified by a low noise amplifier (LN AMP) 1A to compensate the deterioration in the S/N due to level reduction by a succeeding 2-distributor (2 DIV) 1B, and divided into two, a main reception wave and a diversity reception wave for adjacent 6-th sector by the 2DIV-1B.

The main reception wave from the 2DIV-1B and a diversity reception wave received by an adjacent 2 antenna are demodulated by reception demodulators 11C, 11D, excellent S/N is selected and the result is connected to each communication channel. The similar operation is implemented in other 2nd-6th sectors. Thus, the number of reception antennas of the base station is decreased.

